Release notes for ENDF/B Development n-066_Dy_161 evaluation

April 26, 2017

- **checkr** Warnings:

    1. A previous error halted parsing of the current section
       MAT=6640, MF= 1, MT=451 (1): Parsing stopped

       ```
       ERROR(S) FOUND IN MAT=6640, MF= 1, MT=451
           SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER    233 TO    461
       ```

- **checkr** Errors:

    1. A variable is outside the allowed ENDF range
       MAT=6640, MF= 1, MT=451 (0): Variable range

       ```
       ERROR(S) FOUND IN MAT=6640, MF= 1, MT=451
           MOD =    1 OUT OF RANGE    0 -    0          RECORD NUMBER    233
       ```

    2. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=6640, MF= 2, MT=151 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=6640, MF= 2, MT=151
           SECTION  2/151 NOT IN DIRECTORY              RECORD NUMBER    463
       ```

    3. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=6640, MF= 3, MT= 1 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=6640, MF= 3, MT=  1
           SECTION  3/  1 NOT IN DIRECTORY              RECORD NUMBER    969
       ```

    4. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=6640, MF= 3, MT= 2 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=6640, MF= 3, MT=  2
           SECTION  3/  2 NOT IN DIRECTORY              RECORD NUMBER    986
       ```

    5. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=6640, MF= 3, MT= 4 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=6640, MF= 3, MT=  4
           SECTION  3/  4 NOT IN DIRECTORY              RECORD NUMBER    1022
       ```

    6. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=6640, MF= 3, MT= 16 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 16
           SECTION  3/ 16 NOT IN DIRECTORY              RECORD NUMBER    1050
       ```

    7. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=6640, MF= 3, MT= 17 (0): Directory (b)

1

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 17
          SECTION  3/ 17 NOT IN DIRECTORY                    RECORD NUMBER    1060
```

8. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6640, MF= 3, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 22
          SECTION  3/ 22 NOT IN DIRECTORY                    RECORD NUMBER    1066
```

9. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6640, MF= 3, MT= 24 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 24
          SECTION  3/ 24 NOT IN DIRECTORY                    RECORD NUMBER    1076
```

10. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 28
          SECTION  3/ 28 NOT IN DIRECTORY                    RECORD NUMBER    1084
```

11. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 41 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 41
          SECTION  3/ 41 NOT IN DIRECTORY                    RECORD NUMBER    1093
```

12. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 51
          SECTION  3/ 51 NOT IN DIRECTORY                    RECORD NUMBER    1099
```

13. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 52 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 52
          SECTION  3/ 52 NOT IN DIRECTORY                    RECORD NUMBER    1121
```

14. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 53 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 53
          SECTION  3/ 53 NOT IN DIRECTORY                    RECORD NUMBER    1140
```

15. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 54 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 54
           SECTION  3/ 54 NOT IN DIRECTORY                    RECORD NUMBER    1160
```

16. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 55 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 55
           SECTION  3/ 55 NOT IN DIRECTORY                    RECORD NUMBER    1178
```

17. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 56 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 56
           SECTION  3/ 56 NOT IN DIRECTORY                    RECORD NUMBER    1197
```

18. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 57 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 57
           SECTION  3/ 57 NOT IN DIRECTORY                    RECORD NUMBER    1216
```

19. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 58 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 58
           SECTION  3/ 58 NOT IN DIRECTORY                    RECORD NUMBER    1234
```

20. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 59 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 59
           SECTION  3/ 59 NOT IN DIRECTORY                    RECORD NUMBER    1252
```

21. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 60 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 60
           SECTION  3/ 60 NOT IN DIRECTORY                    RECORD NUMBER    1270
```

22. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 61 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 61
           SECTION  3/ 61 NOT IN DIRECTORY                    RECORD NUMBER    1288
```

23. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 62 (0): Directory (b)

3

```
       ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 62
          SECTION  3/ 62 NOT IN DIRECTORY                RECORD NUMBER    1306
```

24. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 63 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 63
          SECTION  3/ 63 NOT IN DIRECTORY                RECORD NUMBER    1324
```

25. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 64 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 64
          SECTION  3/ 64 NOT IN DIRECTORY                RECORD NUMBER    1342
```

26. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 65 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 65
          SECTION  3/ 65 NOT IN DIRECTORY                RECORD NUMBER    1359
```

27. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 66 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 66
          SECTION  3/ 66 NOT IN DIRECTORY                RECORD NUMBER    1377
```

28. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 67 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 67
          SECTION  3/ 67 NOT IN DIRECTORY                RECORD NUMBER    1394
```

29. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 68 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 68
          SECTION  3/ 68 NOT IN DIRECTORY                RECORD NUMBER    1411
```

30. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 69 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 69
          SECTION  3/ 69 NOT IN DIRECTORY                RECORD NUMBER    1428
```

31. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT= 91 (0): Directory (b)

4

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT= 91
         SECTION  3/ 91 NOT IN DIRECTORY                    RECORD NUMBER    1446
```

32. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=102 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=102
         SECTION  3/102 NOT IN DIRECTORY                    RECORD NUMBER    1464
```

33. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=103 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=103
         SECTION  3/103 NOT IN DIRECTORY                    RECORD NUMBER    1486
```

34. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=107 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=107
         SECTION  3/107 NOT IN DIRECTORY                    RECORD NUMBER    1505
```

35. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=600 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=600
         SECTION  3/600 NOT IN DIRECTORY                    RECORD NUMBER    1527
```

36. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=601 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=601
         SECTION  3/601 NOT IN DIRECTORY                    RECORD NUMBER    1541
```

37. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=602 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=602
         SECTION  3/602 NOT IN DIRECTORY                    RECORD NUMBER    1555
```

38. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=603 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=603
         SECTION  3/603 NOT IN DIRECTORY                    RECORD NUMBER    1569
```

39. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=604 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 3, MT=604
    SECTION  3/604 NOT IN DIRECTORY                    RECORD NUMBER    1582
```

40. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6640, MF= 3, MT=605 (0)$: Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 3, MT=605
    SECTION  3/605 NOT IN DIRECTORY                    RECORD NUMBER    1595
```

41. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6640, MF= 3, MT=606 (0)$: Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 3, MT=606
    SECTION  3/606 NOT IN DIRECTORY                    RECORD NUMBER    1608
```

42. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6640, MF= 3, MT=607 (0)$: Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 3, MT=607
    SECTION  3/607 NOT IN DIRECTORY                    RECORD NUMBER    1621
```

43. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6640, MF= 3, MT=608 (0)$: Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 3, MT=608
    SECTION  3/608 NOT IN DIRECTORY                    RECORD NUMBER    1634
```

44. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6640, MF= 3, MT=609 (0)$: Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 3, MT=609
    SECTION  3/609 NOT IN DIRECTORY                    RECORD NUMBER    1647
```

45. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6640, MF= 3, MT=610 (0)$: Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 3, MT=610
    SECTION  3/610 NOT IN DIRECTORY                    RECORD NUMBER    1660
```

46. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6640, MF= 3, MT=611 (0)$: Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 3, MT=611
    SECTION  3/611 NOT IN DIRECTORY                    RECORD NUMBER    1673
```

47. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6640, MF= 3, MT=612 (0)$: Directory (b)

6

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=612
         SECTION  3/612 NOT IN DIRECTORY                    RECORD NUMBER    1686
```

48. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=613 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=613
         SECTION  3/613 NOT IN DIRECTORY                    RECORD NUMBER    1699
```

49. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=614 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=614
         SECTION  3/614 NOT IN DIRECTORY                    RECORD NUMBER    1712
```

50. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=615 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=615
         SECTION  3/615 NOT IN DIRECTORY                    RECORD NUMBER    1725
```

51. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=616 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=616
         SECTION  3/616 NOT IN DIRECTORY                    RECORD NUMBER    1738
```

52. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=649 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=649
         SECTION  3/649 NOT IN DIRECTORY                    RECORD NUMBER    1751
```

53. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=800 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=800
         SECTION  3/800 NOT IN DIRECTORY                    RECORD NUMBER    1764
```

54. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=801 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 3, MT=801
         SECTION  3/801 NOT IN DIRECTORY                    RECORD NUMBER    1785
```

55. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=802 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF= 3, MT=802
        SECTION  3/802 NOT IN DIRECTORY                    RECORD NUMBER    1807
```

56. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=803 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF= 3, MT=803
        SECTION  3/803 NOT IN DIRECTORY                    RECORD NUMBER    1828
```

57. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=804 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF= 3, MT=804
        SECTION  3/804 NOT IN DIRECTORY                    RECORD NUMBER    1850
```

58. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=805 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF= 3, MT=805
        SECTION  3/805 NOT IN DIRECTORY                    RECORD NUMBER    1869
```

59. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=806 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF= 3, MT=806
        SECTION  3/806 NOT IN DIRECTORY                    RECORD NUMBER    1891
```

60. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=807 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF= 3, MT=807
        SECTION  3/807 NOT IN DIRECTORY                    RECORD NUMBER    1913
```

61. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=808 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF= 3, MT=808
        SECTION  3/808 NOT IN DIRECTORY                    RECORD NUMBER    1935
```

62. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=809 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF= 3, MT=809
        SECTION  3/809 NOT IN DIRECTORY                    RECORD NUMBER    1957
```

63. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=810 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT=810
           SECTION  3/810 NOT IN DIRECTORY                 RECORD NUMBER    1979
```

64. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=811 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT=811
           SECTION  3/811 NOT IN DIRECTORY                 RECORD NUMBER    2001
```

65. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=812 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT=812
           SECTION  3/812 NOT IN DIRECTORY                 RECORD NUMBER    2023
```

66. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=813 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT=813
           SECTION  3/813 NOT IN DIRECTORY                 RECORD NUMBER    2045
```

67. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=814 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT=814
           SECTION  3/814 NOT IN DIRECTORY                 RECORD NUMBER    2067
```

68. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 3, MT=849 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 3, MT=849
           SECTION  3/849 NOT IN DIRECTORY                 RECORD NUMBER    2089
```

69. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT= 2 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 4, MT=  2
           SECTION  4/  2 NOT IN DIRECTORY                 RECORD NUMBER    2111
```

70. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 51
           SECTION  4/ 51 NOT IN DIRECTORY                 RECORD NUMBER    2262
```

71. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT= 52 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 52
        SECTION  4/ 52 NOT IN DIRECTORY                RECORD NUMBER    2363
```

72. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT= 53 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 53
        SECTION  4/ 53 NOT IN DIRECTORY                RECORD NUMBER    2506
```

73. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT= 54 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 54
        SECTION  4/ 54 NOT IN DIRECTORY                RECORD NUMBER    2607
```

74. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT= 55 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 55
        SECTION  4/ 55 NOT IN DIRECTORY                RECORD NUMBER    2741
```

75. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT= 56 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 56
        SECTION  4/ 56 NOT IN DIRECTORY                RECORD NUMBER    2836
```

76. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT= 57 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 57
        SECTION  4/ 57 NOT IN DIRECTORY                RECORD NUMBER    2929
```

77. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT= 58 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 58
        SECTION  4/ 58 NOT IN DIRECTORY                RECORD NUMBER    3053
```

78. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT= 59 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 59
        SECTION  4/ 59 NOT IN DIRECTORY                RECORD NUMBER    3142
```

79. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT= 60 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 60
          SECTION  4/ 60 NOT IN DIRECTORY                 RECORD NUMBER    3231
```

80. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 4, MT= 61 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 61
          SECTION  4/ 61 NOT IN DIRECTORY                 RECORD NUMBER    3351
```

81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 4, MT= 62 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 62
          SECTION  4/ 62 NOT IN DIRECTORY                 RECORD NUMBER    3438
```

82. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 4, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 63
          SECTION  4/ 63 NOT IN DIRECTORY                 RECORD NUMBER    3525
```

83. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 4, MT= 64 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 64
          SECTION  4/ 64 NOT IN DIRECTORY                 RECORD NUMBER    3612
```

84. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 4, MT= 65 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 65
          SECTION  4/ 65 NOT IN DIRECTORY                 RECORD NUMBER    3723
```

85. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 4, MT= 66 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 66
          SECTION  4/ 66 NOT IN DIRECTORY                 RECORD NUMBER    3808
```

86. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 4, MT= 67 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 67
          SECTION  4/ 67 NOT IN DIRECTORY                 RECORD NUMBER    3893
```

87. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 4, MT= 68 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 68
         SECTION  4/ 68 NOT IN DIRECTORY                    RECORD NUMBER    3978
```

88. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6640, MF= 4, MT= 69 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT= 69
         SECTION  4/ 69 NOT IN DIRECTORY                    RECORD NUMBER    4063
```

89. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6640, MF= 4, MT=600 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=600
         SECTION  4/600 NOT IN DIRECTORY                    RECORD NUMBER    4148
```

90. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6640, MF= 4, MT=601 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=601
         SECTION  4/601 NOT IN DIRECTORY                    RECORD NUMBER    4211
```

91. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6640, MF= 4, MT=602 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=602
         SECTION  4/602 NOT IN DIRECTORY                    RECORD NUMBER    4274
```

92. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6640, MF= 4, MT=603 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=603
         SECTION  4/603 NOT IN DIRECTORY                    RECORD NUMBER    4337
```

93. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6640, MF= 4, MT=604 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=604
         SECTION  4/604 NOT IN DIRECTORY                    RECORD NUMBER    4398
```

94. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6640, MF= 4, MT=605 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=605
         SECTION  4/605 NOT IN DIRECTORY                    RECORD NUMBER    4459
```

95. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6640, MF= 4, MT=606 (0): Directory (b)$

```
ERROR(S) FOUND IN MAT=6640, MF= 4, MT=606
     SECTION  4/606 NOT IN DIRECTORY                  RECORD NUMBER    4520
```

96. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT=607 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 4, MT=607
     SECTION  4/607 NOT IN DIRECTORY                  RECORD NUMBER    4581
```

97. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT=608 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 4, MT=608
     SECTION  4/608 NOT IN DIRECTORY                  RECORD NUMBER    4642
```

98. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT=609 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 4, MT=609
     SECTION  4/609 NOT IN DIRECTORY                  RECORD NUMBER    4703
```

99. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF= 4, MT=610 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 4, MT=610
     SECTION  4/610 NOT IN DIRECTORY                  RECORD NUMBER    4764
```

100. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 4, MT=611 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 4, MT=611
     SECTION  4/611 NOT IN DIRECTORY                  RECORD NUMBER    4825
```

101. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 4, MT=612 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 4, MT=612
     SECTION  4/612 NOT IN DIRECTORY                  RECORD NUMBER    4886
```

102. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 4, MT=613 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6640, MF= 4, MT=613
     SECTION  4/613 NOT IN DIRECTORY                  RECORD NUMBER    4947
```

103. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 4, MT=614 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=614
        SECTION  4/614 NOT IN DIRECTORY                    RECORD NUMBER    5008
```

104. Missing a section in directory so your directory is messed up. This error will break everything else
     $MAT=6640, MF= 4, MT=615$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=615
        SECTION  4/615 NOT IN DIRECTORY                    RECORD NUMBER    5069
```

105. Missing a section in directory so your directory is messed up. This error will break everything else
     $MAT=6640, MF= 4, MT=616$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=616
        SECTION  4/616 NOT IN DIRECTORY                    RECORD NUMBER    5130
```

106. Missing a section in directory so your directory is messed up. This error will break everything else
     $MAT=6640, MF= 4, MT=800$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=800
        SECTION  4/800 NOT IN DIRECTORY                    RECORD NUMBER    5191
```

107. Missing a section in directory so your directory is messed up. This error will break everything else
     $MAT=6640, MF= 4, MT=801$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=801
        SECTION  4/801 NOT IN DIRECTORY                    RECORD NUMBER    5302
```

108. Missing a section in directory so your directory is messed up. This error will break everything else
     $MAT=6640, MF= 4, MT=802$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=802
        SECTION  4/802 NOT IN DIRECTORY                    RECORD NUMBER    5413
```

109. Missing a section in directory so your directory is messed up. This error will break everything else
     $MAT=6640, MF= 4, MT=803$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=803
        SECTION  4/803 NOT IN DIRECTORY                    RECORD NUMBER    5524
```

110. Missing a section in directory so your directory is messed up. This error will break everything else
     $MAT=6640, MF= 4, MT=804$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=804
        SECTION  4/804 NOT IN DIRECTORY                    RECORD NUMBER    5635
```

111. Missing a section in directory so your directory is messed up. This error will break everything else
     $MAT=6640, MF= 4, MT=805$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=805
         SECTION  4/805 NOT IN DIRECTORY                 RECORD NUMBER    5746
```

112. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 4, MT=806 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=806
         SECTION  4/806 NOT IN DIRECTORY                 RECORD NUMBER    5857
```

113. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 4, MT=807 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=807
         SECTION  4/807 NOT IN DIRECTORY                 RECORD NUMBER    5968
```

114. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 4, MT=808 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=808
         SECTION  4/808 NOT IN DIRECTORY                 RECORD NUMBER    6079
```

115. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 4, MT=809 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=809
         SECTION  4/809 NOT IN DIRECTORY                 RECORD NUMBER    6190
```

116. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 4, MT=810 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=810
         SECTION  4/810 NOT IN DIRECTORY                 RECORD NUMBER    6301
```

117. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 4, MT=811 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=811
         SECTION  4/811 NOT IN DIRECTORY                 RECORD NUMBER    6412
```

118. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 4, MT=812 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF= 4, MT=812
         SECTION  4/812 NOT IN DIRECTORY                 RECORD NUMBER    6523
```

119. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 4, MT=813 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 4, MT=813
            SECTION  4/813 NOT IN DIRECTORY                RECORD NUMBER    6634
```

120. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 4, MT=814 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 4, MT=814
            SECTION  4/814 NOT IN DIRECTORY                RECORD NUMBER    6745
```

121. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 6, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 6, MT= 16
            SECTION  6/ 16 NOT IN DIRECTORY                RECORD NUMBER    6857
```

122. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 6, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 6, MT= 17
            SECTION  6/ 17 NOT IN DIRECTORY                RECORD NUMBER    8413
```

123. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 6, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 6, MT= 22
            SECTION  6/ 22 NOT IN DIRECTORY                RECORD NUMBER    8591
```

124. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 6, MT= 24 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 6, MT= 24
            SECTION  6/ 24 NOT IN DIRECTORY                RECORD NUMBER   10656
```

125. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 6, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 6, MT= 28
            SECTION  6/ 28 NOT IN DIRECTORY                RECORD NUMBER   11208
```

126. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 6, MT= 41 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF= 6, MT= 41
            SECTION  6/ 41 NOT IN DIRECTORY                RECORD NUMBER   12369
```

127. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF= 6, MT= 91 (0): Directory (b)

16

```
       ERROR(S) FOUND IN MAT=6640, MF= 6, MT= 91
          SECTION  6/ 91 NOT IN DIRECTORY                 RECORD NUMBER   12561
```

128. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 6, MT=102 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF= 6, MT=102
          SECTION  6/102 NOT IN DIRECTORY                 RECORD NUMBER   17511
```

129. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 6, MT=649 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF= 6, MT=649
          SECTION  6/649 NOT IN DIRECTORY                 RECORD NUMBER   19371
```

130. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF= 6, MT=849 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF= 6, MT=849
          SECTION  6/849 NOT IN DIRECTORY                 RECORD NUMBER   20919
```

131. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 51 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF=12, MT= 51
          SECTION 12/ 51 NOT IN DIRECTORY                 RECORD NUMBER   23298
```

132. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 52 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF=12, MT= 52
          SECTION 12/ 52 NOT IN DIRECTORY                 RECORD NUMBER   23302
```

133. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 53 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF=12, MT= 53
          SECTION 12/ 53 NOT IN DIRECTORY                 RECORD NUMBER   23306
```

134. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 54 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6640, MF=12, MT= 54
          SECTION 12/ 54 NOT IN DIRECTORY                 RECORD NUMBER   23310
```

135. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 55 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=12, MT= 55
         SECTION 12/ 55 NOT IN DIRECTORY                    RECORD NUMBER   23314
```

136. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 56 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=12, MT= 56
         SECTION 12/ 56 NOT IN DIRECTORY                    RECORD NUMBER   23318
```

137. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 57 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=12, MT= 57
         SECTION 12/ 57 NOT IN DIRECTORY                    RECORD NUMBER   23323
```

138. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 58 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=12, MT= 58
         SECTION 12/ 58 NOT IN DIRECTORY                    RECORD NUMBER   23327
```

139. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 59 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=12, MT= 59
         SECTION 12/ 59 NOT IN DIRECTORY                    RECORD NUMBER   23332
```

140. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 60 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=12, MT= 60
         SECTION 12/ 60 NOT IN DIRECTORY                    RECORD NUMBER   23337
```

141. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 61 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=12, MT= 61
         SECTION 12/ 61 NOT IN DIRECTORY                    RECORD NUMBER   23341
```

142. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 62 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=12, MT= 62
         SECTION 12/ 62 NOT IN DIRECTORY                    RECORD NUMBER   23345
```

143. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT= 63
          SECTION 12/ 63 NOT IN DIRECTORY                    RECORD NUMBER    23349
```

144. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 64 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT= 64
          SECTION 12/ 64 NOT IN DIRECTORY                    RECORD NUMBER    23353
```

145. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 65 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT= 65
          SECTION 12/ 65 NOT IN DIRECTORY                    RECORD NUMBER    23357
```

146. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 66 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT= 66
          SECTION 12/ 66 NOT IN DIRECTORY                    RECORD NUMBER    23362
```

147. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 67 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT= 67
          SECTION 12/ 67 NOT IN DIRECTORY                    RECORD NUMBER    23366
```

148. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 68 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT= 68
          SECTION 12/ 68 NOT IN DIRECTORY                    RECORD NUMBER    23371
```

149. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT= 69 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT= 69
          SECTION 12/ 69 NOT IN DIRECTORY                    RECORD NUMBER    23375
```

150. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=601 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=601
          SECTION 12/601 NOT IN DIRECTORY                    RECORD NUMBER    23379
```

151. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=602 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6640, MF=12, MT=602
             SECTION 12/602 NOT IN DIRECTORY                    RECORD NUMBER    23383
```

152. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=603 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6640, MF=12, MT=603
             SECTION 12/603 NOT IN DIRECTORY                    RECORD NUMBER    23387
```

153. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=604 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6640, MF=12, MT=604
             SECTION 12/604 NOT IN DIRECTORY                    RECORD NUMBER    23391
```

154. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=605 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6640, MF=12, MT=605
             SECTION 12/605 NOT IN DIRECTORY                    RECORD NUMBER    23395
```

155. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=606 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6640, MF=12, MT=606
             SECTION 12/606 NOT IN DIRECTORY                    RECORD NUMBER    23399
```

156. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=607 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6640, MF=12, MT=607
             SECTION 12/607 NOT IN DIRECTORY                    RECORD NUMBER    23404
```

157. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=608 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6640, MF=12, MT=608
             SECTION 12/608 NOT IN DIRECTORY                    RECORD NUMBER    23409
```

158. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=609 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6640, MF=12, MT=609
             SECTION 12/609 NOT IN DIRECTORY                    RECORD NUMBER    23413
```

159. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=610 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=610
           SECTION 12/610 NOT IN DIRECTORY                  RECORD NUMBER   23417
```

160. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=611 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=611
           SECTION 12/611 NOT IN DIRECTORY                  RECORD NUMBER   23421
```

161. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=612 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=612
           SECTION 12/612 NOT IN DIRECTORY                  RECORD NUMBER   23425
```

162. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=613 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=613
           SECTION 12/613 NOT IN DIRECTORY                  RECORD NUMBER   23429
```

163. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=614 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=614
           SECTION 12/614 NOT IN DIRECTORY                  RECORD NUMBER   23435
```

164. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=615 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=615
           SECTION 12/615 NOT IN DIRECTORY                  RECORD NUMBER   23439
```

165. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=616 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=616
           SECTION 12/616 NOT IN DIRECTORY                  RECORD NUMBER   23443
```

166. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=801 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=801
           SECTION 12/801 NOT IN DIRECTORY                  RECORD NUMBER   23447
```

167. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=12, MT=802 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6640, MF=12, MT=802
        SECTION 12/802 NOT IN DIRECTORY                RECORD NUMBER   23451
```

168. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF=12, MT=803 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6640, MF=12, MT=803
        SECTION 12/803 NOT IN DIRECTORY                RECORD NUMBER   23455
```

169. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF=12, MT=804 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6640, MF=12, MT=804
        SECTION 12/804 NOT IN DIRECTORY                RECORD NUMBER   23459
```

170. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF=12, MT=805 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6640, MF=12, MT=805
        SECTION 12/805 NOT IN DIRECTORY                RECORD NUMBER   23463
```

171. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF=12, MT=806 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6640, MF=12, MT=806
        SECTION 12/806 NOT IN DIRECTORY                RECORD NUMBER   23467
```

172. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF=12, MT=807 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6640, MF=12, MT=807
        SECTION 12/807 NOT IN DIRECTORY                RECORD NUMBER   23471
```

173. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF=12, MT=808 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6640, MF=12, MT=808
        SECTION 12/808 NOT IN DIRECTORY                RECORD NUMBER   23475
```

174. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF=12, MT=809 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6640, MF=12, MT=809
        SECTION 12/809 NOT IN DIRECTORY                RECORD NUMBER   23479
```

175. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6640, MF=12, MT=810 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=810
            SECTION 12/810 NOT IN DIRECTORY                    RECORD NUMBER    23483
```

176. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=12, MT=811 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=811
            SECTION 12/811 NOT IN DIRECTORY                    RECORD NUMBER    23487
```

177. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=12, MT=812 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=812
            SECTION 12/812 NOT IN DIRECTORY                    RECORD NUMBER    23491
```

178. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=12, MT=813 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=813
            SECTION 12/813 NOT IN DIRECTORY                    RECORD NUMBER    23496
```

179. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=12, MT=814 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=12, MT=814
            SECTION 12/814 NOT IN DIRECTORY                    RECORD NUMBER    23500
```

180. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT= 51
            SECTION 14/ 51 NOT IN DIRECTORY                    RECORD NUMBER    23505
```

181. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT= 52 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT= 52
            SECTION 14/ 52 NOT IN DIRECTORY                    RECORD NUMBER    23507
```

182. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT= 53 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT= 53
            SECTION 14/ 53 NOT IN DIRECTORY                    RECORD NUMBER    23509
```

183. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT= 54 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF=14, MT= 54
        SECTION 14/ 54 NOT IN DIRECTORY                    RECORD NUMBER   23511
```

184. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT= 55 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF=14, MT= 55
        SECTION 14/ 55 NOT IN DIRECTORY                    RECORD NUMBER   23513
```

185. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT= 56 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF=14, MT= 56
        SECTION 14/ 56 NOT IN DIRECTORY                    RECORD NUMBER   23515
```

186. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT= 57 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF=14, MT= 57
        SECTION 14/ 57 NOT IN DIRECTORY                    RECORD NUMBER   23517
```

187. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT= 58 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF=14, MT= 58
        SECTION 14/ 58 NOT IN DIRECTORY                    RECORD NUMBER   23519
```

188. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT= 59 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF=14, MT= 59
        SECTION 14/ 59 NOT IN DIRECTORY                    RECORD NUMBER   23521
```

189. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT= 60 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF=14, MT= 60
        SECTION 14/ 60 NOT IN DIRECTORY                    RECORD NUMBER   23523
```

190. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT= 61 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6640, MF=14, MT= 61
        SECTION 14/ 61 NOT IN DIRECTORY                    RECORD NUMBER   23525
```

191. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT= 62 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT= 62
          SECTION 14/ 62 NOT IN DIRECTORY                 RECORD NUMBER   23527
```

192. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6640, MF=14, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT= 63
          SECTION 14/ 63 NOT IN DIRECTORY                 RECORD NUMBER   23529
```

193. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6640, MF=14, MT= 64 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT= 64
          SECTION 14/ 64 NOT IN DIRECTORY                 RECORD NUMBER   23531
```

194. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6640, MF=14, MT= 65 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT= 65
          SECTION 14/ 65 NOT IN DIRECTORY                 RECORD NUMBER   23533
```

195. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6640, MF=14, MT= 66 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT= 66
          SECTION 14/ 66 NOT IN DIRECTORY                 RECORD NUMBER   23535
```

196. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6640, MF=14, MT= 67 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT= 67
          SECTION 14/ 67 NOT IN DIRECTORY                 RECORD NUMBER   23537
```

197. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6640, MF=14, MT= 68 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT= 68
          SECTION 14/ 68 NOT IN DIRECTORY                 RECORD NUMBER   23539
```

198. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6640, MF=14, MT= 69 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT= 69
          SECTION 14/ 69 NOT IN DIRECTORY                 RECORD NUMBER   23541
```

199. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6640, MF=14, MT=601 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=601
         SECTION 14/601 NOT IN DIRECTORY              RECORD NUMBER   23543
```

200. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=602 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=602
         SECTION 14/602 NOT IN DIRECTORY              RECORD NUMBER   23545
```

201. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=603 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=603
         SECTION 14/603 NOT IN DIRECTORY              RECORD NUMBER   23547
```

202. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=604 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=604
         SECTION 14/604 NOT IN DIRECTORY              RECORD NUMBER   23549
```

203. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=605 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=605
         SECTION 14/605 NOT IN DIRECTORY              RECORD NUMBER   23551
```

204. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=606 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=606
         SECTION 14/606 NOT IN DIRECTORY              RECORD NUMBER   23553
```

205. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=607 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=607
         SECTION 14/607 NOT IN DIRECTORY              RECORD NUMBER   23555
```

206. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=608 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=608
         SECTION 14/608 NOT IN DIRECTORY              RECORD NUMBER   23557
```

207. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=609 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=609
          SECTION 14/609 NOT IN DIRECTORY                    RECORD NUMBER    23559
```

208. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=610 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=610
          SECTION 14/610 NOT IN DIRECTORY                    RECORD NUMBER    23561
```

209. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=611 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=611
          SECTION 14/611 NOT IN DIRECTORY                    RECORD NUMBER    23563
```

210. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=612 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=612
          SECTION 14/612 NOT IN DIRECTORY                    RECORD NUMBER    23565
```

211. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=613 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=613
          SECTION 14/613 NOT IN DIRECTORY                    RECORD NUMBER    23567
```

212. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=614 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=614
          SECTION 14/614 NOT IN DIRECTORY                    RECORD NUMBER    23569
```

213. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=615 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=615
          SECTION 14/615 NOT IN DIRECTORY                    RECORD NUMBER    23571
```

214. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=616 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=616
          SECTION 14/616 NOT IN DIRECTORY                    RECORD NUMBER    23573
```

215. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6640, MF=14, MT=801 (0): Directory (b)

27

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=801
           SECTION 14/801 NOT IN DIRECTORY                    RECORD NUMBER    23575
```

216. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=802 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=802
           SECTION 14/802 NOT IN DIRECTORY                    RECORD NUMBER    23577
```

217. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=803 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=803
           SECTION 14/803 NOT IN DIRECTORY                    RECORD NUMBER    23579
```

218. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=804 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=804
           SECTION 14/804 NOT IN DIRECTORY                    RECORD NUMBER    23581
```

219. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=805 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=805
           SECTION 14/805 NOT IN DIRECTORY                    RECORD NUMBER    23583
```

220. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=806 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=806
           SECTION 14/806 NOT IN DIRECTORY                    RECORD NUMBER    23585
```

221. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=807 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=807
           SECTION 14/807 NOT IN DIRECTORY                    RECORD NUMBER    23587
```

222. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=808 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6640, MF=14, MT=808
           SECTION 14/808 NOT IN DIRECTORY                    RECORD NUMBER    23589
```

223. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=809 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=809
           SECTION 14/809 NOT IN DIRECTORY                    RECORD NUMBER   23591
```

224. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=810 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=810
           SECTION 14/810 NOT IN DIRECTORY                    RECORD NUMBER   23593
```

225. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=811 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=811
           SECTION 14/811 NOT IN DIRECTORY                    RECORD NUMBER   23595
```

226. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=812 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=812
           SECTION 14/812 NOT IN DIRECTORY                    RECORD NUMBER   23597
```

227. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=813 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=813
           SECTION 14/813 NOT IN DIRECTORY                    RECORD NUMBER   23599
```

228. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6640, MF=14, MT=814 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6640, MF=14, MT=814
           SECTION 14/814 NOT IN DIRECTORY                    RECORD NUMBER   23601
```

- psyche   Warnings:

   1. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.79300E-04 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.79300E-04 / DENSITY 3.30380E+00 SHOULD BE 2.58616E+00 (0): URR dens. (a)

```
      FILE  2
         SECTION 151
              ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.79300E-04
                       ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.79300E-04
                                DENSITY  3.30380E+00 SHOULD BE  2.58616E+00
```

   2. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 1.79300E-04 / DENSITY 3.30137E+00 SHOULD BE 2.58426E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.50000E+03. STRENGTH FUNCTION IS  1.79300E-04
                          DENSITY  3.30137E+00 SHOULD BE  2.58426E+00
```

3. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 1.79300E-04 / DENSITY 3.29896E+00 SHOULD BE 2.58238E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  2.00000E+03. STRENGTH FUNCTION IS  1.79300E-04
                          DENSITY  3.29896E+00 SHOULD BE  2.58238E+00
```

4. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 3.00000E+03. STRENGTH FUNCTION IS 1.79300E-04 / DENSITY 3.29415E+00 SHOULD BE 2.57861E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  3.00000E+03. STRENGTH FUNCTION IS  1.79300E-04
                          DENSITY  3.29415E+00 SHOULD BE  2.57861E+00
```

5. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 4.00000E+03. STRENGTH FUNCTION IS 1.79300E-04 / DENSITY 3.28934E+00 SHOULD BE 2.57484E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  4.00000E+03. STRENGTH FUNCTION IS  1.79300E-04
                          DENSITY  3.28934E+00 SHOULD BE  2.57484E+00
```

6. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 5.00000E+03. STRENGTH FUNCTION IS 1.79300E-04 / DENSITY 3.28453E+00 SHOULD BE 2.57108E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  5.00000E+03. STRENGTH FUNCTION IS  1.79300E-04
                          DENSITY  3.28453E+00 SHOULD BE  2.57108E+00
```

7. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 6.25000E+03. STRENGTH FUNCTION IS 1.79300E-04 / DENSITY 3.27854E+00 SHOULD BE 2.56639E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  6.25000E+03. STRENGTH FUNCTION IS  1.79300E-04
                          DENSITY  3.27854E+00 SHOULD BE  2.56639E+00
```

8. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.79300E-04 / DENSITY 3.27256E+00 SHOULD BE 2.56171E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  7.50000E+03. STRENGTH FUNCTION IS  1.79300E-04
                         DENSITY  3.27256E+00 SHOULD BE  2.56171E+00
```

9. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 8.75000E+03. STRENGTH FUNCTION IS
   1.79300E-04 / DENSITY 3.26659E+00 SHOULD BE 2.55704E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  8.75000E+03. STRENGTH FUNCTION IS  1.79300E-04
                         DENSITY  3.26659E+00 SHOULD BE  2.55704E+00
```

10. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS
    1.79300E-04 / DENSITY 3.26064E+00 SHOULD BE 2.55238E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  1.79300E-04
                         DENSITY  3.26064E+00 SHOULD BE  2.55238E+00
```

11. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.12500E+04. STRENGTH FUNCTION IS
    1.79300E-04 / DENSITY 3.25469E+00 SHOULD BE 2.54772E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.12500E+04. STRENGTH FUNCTION IS  1.79300E-04
                         DENSITY  3.25469E+00 SHOULD BE  2.54772E+00
```

12. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.25000E+04. STRENGTH FUNCTION IS
    1.79300E-04 / DENSITY 3.24876E+00 SHOULD BE 2.54308E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.25000E+04. STRENGTH FUNCTION IS  1.79300E-04
                         DENSITY  3.24876E+00 SHOULD BE  2.54308E+00
```

13. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.37500E+04. STRENGTH FUNCTION IS
    1.79300E-04 / DENSITY 3.24283E+00 SHOULD BE 2.53844E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.37500E+04. STRENGTH FUNCTION IS  1.79300E-04
                         DENSITY  3.24283E+00 SHOULD BE  2.53844E+00
```

14. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS
    1.79300E-04 / DENSITY 3.23692E+00 SHOULD BE 2.53381E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  1.50000E+04. STRENGTH FUNCTION IS  1.79300E-04
                        DENSITY  3.23692E+00 SHOULD BE  2.53381E+00
```

15. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 1.75000E+04. STRENGTH FUNCTION IS
    1.79300E-04 / DENSITY 3.22513E+00 SHOULD BE 2.52458E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  1.75000E+04. STRENGTH FUNCTION IS  1.79300E-04
                        DENSITY  3.22513E+00 SHOULD BE  2.52458E+00
```

16. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS
    1.79300E-04 / DENSITY 3.21339E+00 SHOULD BE 2.51539E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  2.00000E+04. STRENGTH FUNCTION IS  1.79300E-04
                        DENSITY  3.21339E+00 SHOULD BE  2.51539E+00
```

17. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 2.25000E+04. STRENGTH FUNCTION IS
    1.79300E-04 / DENSITY 3.20169E+00 SHOULD BE 2.50623E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  2.25000E+04. STRENGTH FUNCTION IS  1.79300E-04
                        DENSITY  3.20169E+00 SHOULD BE  2.50623E+00
```

18. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 2.58120E+04. STRENGTH FUNCTION IS
    1.79300E-04 / DENSITY 3.18626E+00 SHOULD BE 2.49415E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  2.58120E+04. STRENGTH FUNCTION IS  1.79300E-04
                        DENSITY  3.18626E+00 SHOULD BE  2.49415E+00
```

19. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS
    1.41000E-04 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.41000E-04 /
    DENSITY 3.62063E+00 SHOULD BE 3.07524E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
       ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.41000E-04
               ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.41000E-04
                        DENSITY  3.62063E+00 SHOULD BE  3.07524E+00
```

20. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS
    1.41000E-04 / DENSITY 3.61797E+00 SHOULD BE 3.07298E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  1.50000E+03. STRENGTH FUNCTION IS  1.41000E-04
                           DENSITY  3.61797E+00 SHOULD BE  3.07298E+00
```

21. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.61532E+00 SHOULD BE 3.07073E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  2.00000E+03. STRENGTH FUNCTION IS  1.41000E-04
                           DENSITY  3.61532E+00 SHOULD BE  3.07073E+00
```

22. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 3.00000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.61005E+00 SHOULD BE 3.06625E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  3.00000E+03. STRENGTH FUNCTION IS  1.41000E-04
                           DENSITY  3.61005E+00 SHOULD BE  3.06625E+00
```

23. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 4.00000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.60478E+00 SHOULD BE 3.06178E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  4.00000E+03. STRENGTH FUNCTION IS  1.41000E-04
                           DENSITY  3.60478E+00 SHOULD BE  3.06178E+00
```

24. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 5.00000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.59951E+00 SHOULD BE 3.05730E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  5.00000E+03. STRENGTH FUNCTION IS  1.41000E-04
                           DENSITY  3.59951E+00 SHOULD BE  3.05730E+00
```

25. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 6.25000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.59295E+00 SHOULD BE 3.05173E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  6.25000E+03. STRENGTH FUNCTION IS  1.41000E-04
                           DENSITY  3.59295E+00 SHOULD BE  3.05173E+00
```

26. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.58640E+00 SHOULD BE 3.04616E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  7.50000E+03. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.58640E+00 SHOULD BE  3.04616E+00
```

27. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.75000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.57985E+00 SHOULD BE 3.04061E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  8.75000E+03. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.57985E+00 SHOULD BE  3.04061E+00
```

28. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.57333E+00 SHOULD BE 3.03506E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.57333E+00 SHOULD BE  3.03506E+00
```

29. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.12500E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.56681E+00 SHOULD BE 3.02953E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  1.12500E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.56681E+00 SHOULD BE  3.02953E+00
```

30. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.25000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.56031E+00 SHOULD BE 3.02400E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  1.25000E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.56031E+00 SHOULD BE  3.02400E+00
```

31. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.37500E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.55381E+00 SHOULD BE 3.01849E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  1.37500E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.55381E+00 SHOULD BE  3.01849E+00
```

32. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.54734E+00 SHOULD BE 3.01299E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.50000E+04. STRENGTH FUNCTION IS  1.41000E-04
                        DENSITY  3.54734E+00 SHOULD BE  3.01299E+00
```

33. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.75000E+04. STRENGTH FUNCTION IS
1.41000E-04 / DENSITY 3.53442E+00 SHOULD BE 3.00201E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  1.75000E+04. STRENGTH FUNCTION IS  1.41000E-04
                        DENSITY  3.53442E+00 SHOULD BE  3.00201E+00
```

34. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS
1.41000E-04 / DENSITY 3.52154E+00 SHOULD BE 2.99108E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  2.00000E+04. STRENGTH FUNCTION IS  1.41000E-04
                        DENSITY  3.52154E+00 SHOULD BE  2.99108E+00
```

35. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.25000E+04. STRENGTH FUNCTION IS
1.41000E-04 / DENSITY 3.50872E+00 SHOULD BE 2.98019E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  2.25000E+04. STRENGTH FUNCTION IS  1.41000E-04
                        DENSITY  3.50872E+00 SHOULD BE  2.98019E+00
```

36. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.58120E+04. STRENGTH FUNCTION IS
1.41000E-04 / DENSITY 3.49181E+00 SHOULD BE 2.96583E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  2.58120E+04. STRENGTH FUNCTION IS  1.41000E-04
                        DENSITY  3.49181E+00 SHOULD BE  2.96583E+00
```

37. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS
1.41000E-04 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.41000E-04 /
DENSITY 3.30380E+00 SHOULD BE 2.19660E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
        ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.41000E-04
                ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.41000E-04
                        DENSITY  3.30380E+00 SHOULD BE  2.19660E+00
```

38. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS
1.41000E-04 / DENSITY 3.30137E+00 SHOULD BE 2.19498E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  1.50000E+03. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.30137E+00 SHOULD BE  2.19498E+00
```

39. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS
1.41000E-04 / DENSITY 3.29896E+00 SHOULD BE 2.19338E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  2.00000E+03. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.29896E+00 SHOULD BE  2.19338E+00
```

40. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 3.00000E+03. STRENGTH FUNCTION IS
1.41000E-04 / DENSITY 3.29415E+00 SHOULD BE 2.19018E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  3.00000E+03. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.29415E+00 SHOULD BE  2.19018E+00
```

41. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 4.00000E+03. STRENGTH FUNCTION IS
1.41000E-04 / DENSITY 3.28934E+00 SHOULD BE 2.18698E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  4.00000E+03. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.28934E+00 SHOULD BE  2.18698E+00
```

42. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 5.00000E+03. STRENGTH FUNCTION IS
1.41000E-04 / DENSITY 3.28453E+00 SHOULD BE 2.18379E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  5.00000E+03. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.28453E+00 SHOULD BE  2.18379E+00
```

43. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 6.25000E+03. STRENGTH FUNCTION IS
1.41000E-04 / DENSITY 3.27854E+00 SHOULD BE 2.17981E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  6.25000E+03. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.27854E+00 SHOULD BE  2.17981E+00
```

44. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS
1.41000E-04 / DENSITY 3.27256E+00 SHOULD BE 2.17583E+00 (0): URR dens. (a)*

36

```
FILE  2
   SECTION 151
           ENERGY =  7.50000E+03. STRENGTH FUNCTION IS  1.41000E-04
                            DENSITY  3.27256E+00 SHOULD BE  2.17583E+00
```

45. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 8.75000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.26659E+00 SHOULD BE 2.17186E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  8.75000E+03. STRENGTH FUNCTION IS  1.41000E-04
                            DENSITY  3.26659E+00 SHOULD BE  2.17186E+00
```

46. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.26064E+00 SHOULD BE 2.16790E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  1.41000E-04
                            DENSITY  3.26064E+00 SHOULD BE  2.16790E+00
```

47. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.12500E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.25469E+00 SHOULD BE 2.16395E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  1.12500E+04. STRENGTH FUNCTION IS  1.41000E-04
                            DENSITY  3.25469E+00 SHOULD BE  2.16395E+00
```

48. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.25000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.24876E+00 SHOULD BE 2.16000E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  1.25000E+04. STRENGTH FUNCTION IS  1.41000E-04
                            DENSITY  3.24876E+00 SHOULD BE  2.16000E+00
```

49. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.37500E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.24283E+00 SHOULD BE 2.15606E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  1.37500E+04. STRENGTH FUNCTION IS  1.41000E-04
                            DENSITY  3.24283E+00 SHOULD BE  2.15606E+00
```

50. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.23692E+00 SHOULD BE 2.15213E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  1.50000E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.23692E+00 SHOULD BE  2.15213E+00
```

51. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.75000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.22513E+00 SHOULD BE 2.14429E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  1.75000E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.22513E+00 SHOULD BE  2.14429E+00
```

52. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.21339E+00 SHOULD BE 2.13649E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  2.00000E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.21339E+00 SHOULD BE  2.13649E+00
```

53. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.25000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.20169E+00 SHOULD BE 2.12871E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  2.25000E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.20169E+00 SHOULD BE  2.12871E+00
```

54. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.58120E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.18626E+00 SHOULD BE 2.11845E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  2.58120E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.18626E+00 SHOULD BE  2.11845E+00
```

55. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.41000E-04 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.56189E+00 SHOULD BE 1.70847E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
        ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.41000E-04
               ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.56189E+00 SHOULD BE  1.70847E+00
```

56. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.55927E+00 SHOULD BE 1.70721E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  1.50000E+03. STRENGTH FUNCTION IS  1.41000E-04
                       DENSITY  3.55927E+00 SHOULD BE  1.70721E+00
```

57. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.55667E+00 SHOULD BE 1.70596E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  2.00000E+03. STRENGTH FUNCTION IS  1.41000E-04
                       DENSITY  3.55667E+00 SHOULD BE  1.70596E+00
```

58. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 3.00000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.55147E+00 SHOULD BE 1.70347E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  3.00000E+03. STRENGTH FUNCTION IS  1.41000E-04
                       DENSITY  3.55147E+00 SHOULD BE  1.70347E+00
```

59. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 4.00000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.54629E+00 SHOULD BE 1.70099E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  4.00000E+03. STRENGTH FUNCTION IS  1.41000E-04
                       DENSITY  3.54629E+00 SHOULD BE  1.70099E+00
```

60. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.00000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.54111E+00 SHOULD BE 1.69850E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  5.00000E+03. STRENGTH FUNCTION IS  1.41000E-04
                       DENSITY  3.54111E+00 SHOULD BE  1.69850E+00
```

61. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.25000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.53465E+00 SHOULD BE 1.69540E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  6.25000E+03. STRENGTH FUNCTION IS  1.41000E-04
                       DENSITY  3.53465E+00 SHOULD BE  1.69540E+00
```

62. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.52821E+00 SHOULD BE 1.69231E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  7.50000E+03. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.52821E+00 SHOULD BE  1.69231E+00
```

63. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.75000E+03. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.52177E+00 SHOULD BE 1.68923E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  8.75000E+03. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.52177E+00 SHOULD BE  1.68923E+00
```

64. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.51535E+00 SHOULD BE 1.68615E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.51535E+00 SHOULD BE  1.68615E+00
```

65. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.12500E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.50894E+00 SHOULD BE 1.68307E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.12500E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.50894E+00 SHOULD BE  1.68307E+00
```

66. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.25000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.50254E+00 SHOULD BE 1.68000E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.25000E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.50254E+00 SHOULD BE  1.68000E+00
```

67. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.37500E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.49616E+00 SHOULD BE 1.67694E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.37500E+04. STRENGTH FUNCTION IS  1.41000E-04
                         DENSITY  3.49616E+00 SHOULD BE  1.67694E+00
```

68. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.48978E+00 SHOULD BE 1.67388E+00 (0): URR dens. (a)

```
FILE  2
    SECTION 151
            ENERGY =  1.50000E+04. STRENGTH FUNCTION IS  1.41000E-04
                           DENSITY  3.48978E+00 SHOULD BE  1.67388E+00
```

69. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.75000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.47707E+00 SHOULD BE 1.66779E+00 (0): URR dens. (a)

```
FILE  2
    SECTION 151
            ENERGY =  1.75000E+04. STRENGTH FUNCTION IS  1.41000E-04
                           DENSITY  3.47707E+00 SHOULD BE  1.66779E+00
```

70. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.46441E+00 SHOULD BE 1.66171E+00 (0): URR dens. (a)

```
FILE  2
    SECTION 151
            ENERGY =  2.00000E+04. STRENGTH FUNCTION IS  1.41000E-04
                           DENSITY  3.46441E+00 SHOULD BE  1.66171E+00
```

71. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 2.25000E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.45179E+00 SHOULD BE 1.65566E+00 (0): URR dens. (a)

```
FILE  2
    SECTION 151
            ENERGY =  2.25000E+04. STRENGTH FUNCTION IS  1.41000E-04
                           DENSITY  3.45179E+00 SHOULD BE  1.65566E+00
```

72. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 2.58120E+04. STRENGTH FUNCTION IS 1.41000E-04 / DENSITY 3.43516E+00 SHOULD BE 1.64768E+00 (0): URR dens. (a)

```
FILE  2
    SECTION 151
            ENERGY =  2.58120E+04. STRENGTH FUNCTION IS  1.41000E-04
                           DENSITY  3.43516E+00 SHOULD BE  1.64768E+00
```

73. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.79000E-04 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 5.12540E+00 SHOULD BE 4.72362E+00 (0): URR dens. (a)

```
FILE  2
    SECTION 151
        ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.79000E-04
                 ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.79000E-04
                           DENSITY  5.12540E+00 SHOULD BE  4.72362E+00
```

74. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 5.12163E+00 SHOULD BE 4.72015E+00 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  1.50000E+03. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  5.12163E+00 SHOULD BE  4.72015E+00
```

75. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 5.11789E+00 SHOULD BE 4.71670E+00 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  2.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  5.11789E+00 SHOULD BE  4.71670E+00
```

76. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 3.00000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 5.11042E+00 SHOULD BE 4.70982E+00 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  3.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  5.11042E+00 SHOULD BE  4.70982E+00
```

77. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 4.00000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 5.10296E+00 SHOULD BE 4.70294E+00 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  4.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  5.10296E+00 SHOULD BE  4.70294E+00
```

78. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.00000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 5.09551E+00 SHOULD BE 4.69607E+00 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  5.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  5.09551E+00 SHOULD BE  4.69607E+00
```

79. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.25000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 5.08621E+00 SHOULD BE 4.68751E+00 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  6.25000E+03. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  5.08621E+00 SHOULD BE  4.68751E+00
```

80. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 5.07694E+00 SHOULD BE 4.67896E+00 (0): URR dens. (a)

```
        FILE  2
           SECTION 151
                  ENERGY =  7.50000E+03. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  5.07694E+00 SHOULD BE   4.67896E+00
```

81. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 8.75000E+03. STRENGTH FUNCTION IS
    1.79000E-04 / DENSITY 5.06768E+00 SHOULD BE 4.67042E+00 (0): URR dens. (a)*

```
        FILE  2
           SECTION 151
                  ENERGY =  8.75000E+03. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  5.06768E+00 SHOULD BE   4.67042E+00
```

82. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS
    1.79000E-04 / DENSITY 5.05844E+00 SHOULD BE 4.66191E+00 (0): URR dens. (a)*

```
        FILE  2
           SECTION 151
                  ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  5.05844E+00 SHOULD BE   4.66191E+00
```

83. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 1.12500E+04. STRENGTH FUNCTION IS
    1.79000E-04 / DENSITY 5.04921E+00 SHOULD BE 4.65341E+00 (0): URR dens. (a)*

```
        FILE  2
           SECTION 151
                  ENERGY =  1.12500E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  5.04921E+00 SHOULD BE   4.65341E+00
```

84. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 1.25000E+04. STRENGTH FUNCTION IS
    1.79000E-04 / DENSITY 5.04001E+00 SHOULD BE 4.64492E+00 (0): URR dens. (a)*

```
        FILE  2
           SECTION 151
                  ENERGY =  1.25000E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  5.04001E+00 SHOULD BE   4.64492E+00
```

85. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 1.37500E+04. STRENGTH FUNCTION IS
    1.79000E-04 / DENSITY 5.03082E+00 SHOULD BE 4.63645E+00 (0): URR dens. (a)*

```
        FILE  2
           SECTION 151
                  ENERGY =  1.37500E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  5.03082E+00 SHOULD BE   4.63645E+00
```

86. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS
    1.79000E-04 / DENSITY 5.02165E+00 SHOULD BE 4.62800E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  1.50000E+04. STRENGTH FUNCTION IS  1.79000E-04
                      DENSITY  5.02165E+00 SHOULD BE  4.62800E+00
```

87. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.75000E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 5.00336E+00 SHOULD BE 4.61114E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  1.75000E+04. STRENGTH FUNCTION IS  1.79000E-04
                      DENSITY  5.00336E+00 SHOULD BE  4.61114E+00
```

88. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.98513E+00 SHOULD BE 4.59435E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  2.00000E+04. STRENGTH FUNCTION IS  1.79000E-04
                      DENSITY  4.98513E+00 SHOULD BE  4.59435E+00
```

89. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.25000E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.96698E+00 SHOULD BE 4.57762E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  2.25000E+04. STRENGTH FUNCTION IS  1.79000E-04
                      DENSITY  4.96698E+00 SHOULD BE  4.57762E+00
```

90. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.58120E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.94304E+00 SHOULD BE 4.55556E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  2.58120E+04. STRENGTH FUNCTION IS  1.79000E-04
                      DENSITY  4.94304E+00 SHOULD BE  4.55556E+00
```

91. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS
1.79000E-04 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.79000E-04 /
DENSITY 3.62063E+00 SHOULD BE 2.83417E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
       ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.79000E-04
                ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.79000E-04
                      DENSITY  3.62063E+00 SHOULD BE  2.83417E+00
```

92. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.61797E+00 SHOULD BE 2.83209E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
           ENERGY =  1.50000E+03. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.61797E+00 SHOULD BE  2.83209E+00
```

93. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.61532E+00 SHOULD BE 2.83002E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
           ENERGY =  2.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.61532E+00 SHOULD BE  2.83002E+00
```

94. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 3.00000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.61005E+00 SHOULD BE 2.82589E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
           ENERGY =  3.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.61005E+00 SHOULD BE  2.82589E+00
```

95. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 4.00000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.60478E+00 SHOULD BE 2.82176E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
           ENERGY =  4.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.60478E+00 SHOULD BE  2.82176E+00
```

96. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 5.00000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.59951E+00 SHOULD BE 2.81764E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
           ENERGY =  5.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.59951E+00 SHOULD BE  2.81764E+00
```

97. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 6.25000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.59295E+00 SHOULD BE 2.81250E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
           ENERGY =  6.25000E+03. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.59295E+00 SHOULD BE  2.81250E+00
```

98. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.58640E+00 SHOULD BE 2.80738E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
          ENERGY =  7.50000E+03. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.58640E+00 SHOULD BE  2.80738E+00
```

99. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.75000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.57985E+00 SHOULD BE 2.80225E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  8.75000E+03. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.57985E+00 SHOULD BE  2.80225E+00
```

100. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.57333E+00 SHOULD BE 2.79715E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.57333E+00 SHOULD BE  2.79715E+00
```

101. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.12500E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.56681E+00 SHOULD BE 2.79204E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.12500E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.56681E+00 SHOULD BE  2.79204E+00
```

102. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.25000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.56031E+00 SHOULD BE 2.78695E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.25000E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.56031E+00 SHOULD BE  2.78695E+00
```

103. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.37500E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.55381E+00 SHOULD BE 2.78187E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.37500E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.55381E+00 SHOULD BE  2.78187E+00
```

104. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.54734E+00 SHOULD BE 2.77680E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.50000E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  3.54734E+00 SHOULD BE  2.77680E+00
```

105. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.75000E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.53442E+00 SHOULD BE 2.76669E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  1.75000E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  3.53442E+00 SHOULD BE  2.76669E+00
```

106. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.52154E+00 SHOULD BE 2.75661E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  2.00000E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  3.52154E+00 SHOULD BE  2.75661E+00
```

107. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.25000E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.50872E+00 SHOULD BE 2.74657E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  2.25000E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  3.50872E+00 SHOULD BE  2.74657E+00
```

108. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.58120E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.49181E+00 SHOULD BE 2.73334E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  2.58120E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  3.49181E+00 SHOULD BE  2.73334E+00
```

109. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS
1.79000E-04 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.79000E-04 /
DENSITY 3.30380E+00 SHOULD BE 2.02441E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
        ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.79000E-04
                ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  3.30380E+00 SHOULD BE  2.02441E+00
```

110. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.30137E+00 SHOULD BE 2.02292E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
          ENERGY =  1.50000E+03. STRENGTH FUNCTION IS  1.79000E-04
                    DENSITY  3.30137E+00 SHOULD BE  2.02292E+00
```

111. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.29896E+00 SHOULD BE 2.02144E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  2.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                    DENSITY  3.29896E+00 SHOULD BE  2.02144E+00
```

112. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 3.00000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.29415E+00 SHOULD BE 2.01849E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  3.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                    DENSITY  3.29415E+00 SHOULD BE  2.01849E+00
```

113. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 4.00000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.28934E+00 SHOULD BE 2.01555E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  4.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                    DENSITY  3.28934E+00 SHOULD BE  2.01555E+00
```

114. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.00000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.28453E+00 SHOULD BE 2.01260E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  5.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                    DENSITY  3.28453E+00 SHOULD BE  2.01260E+00
```

115. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.25000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.27854E+00 SHOULD BE 2.00893E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  6.25000E+03. STRENGTH FUNCTION IS  1.79000E-04
                    DENSITY  3.27854E+00 SHOULD BE  2.00893E+00
```

116. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.27256E+00 SHOULD BE 2.00527E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  7.50000E+03. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.27256E+00 SHOULD BE  2.00527E+00
```

117. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.75000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.26659E+00 SHOULD BE 2.00161E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  8.75000E+03. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.26659E+00 SHOULD BE  2.00161E+00
```

118. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.26064E+00 SHOULD BE 1.99796E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.26064E+00 SHOULD BE  1.99796E+00
```

119. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.12500E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.25469E+00 SHOULD BE 1.99432E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.12500E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.25469E+00 SHOULD BE  1.99432E+00
```

120. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.25000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.24876E+00 SHOULD BE 1.99068E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.25000E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.24876E+00 SHOULD BE  1.99068E+00
```

121. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.37500E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.24283E+00 SHOULD BE 1.98705E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.37500E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.24283E+00 SHOULD BE  1.98705E+00
```

122. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.23692E+00 SHOULD BE 1.98343E+00 (0): URR dens. (a)

49

```
FILE  2
   SECTION 151
          ENERGY =  1.50000E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.23692E+00 SHOULD BE  1.98343E+00
```

123. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.75000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.22513E+00 SHOULD BE 1.97620E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.75000E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.22513E+00 SHOULD BE  1.97620E+00
```

124. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.21339E+00 SHOULD BE 1.96901E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  2.00000E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.21339E+00 SHOULD BE  1.96901E+00
```

125. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.25000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.20169E+00 SHOULD BE 1.96184E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  2.25000E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.20169E+00 SHOULD BE  1.96184E+00
```

126. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.58120E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.18626E+00 SHOULD BE 1.95238E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  2.58120E+04. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.18626E+00 SHOULD BE  1.95238E+00
```

127. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.79000E-04 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.56189E+00 SHOULD BE 1.57454E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.79000E-04
                ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.79000E-04
                         DENSITY  3.56189E+00 SHOULD BE  1.57454E+00
```

128. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.55927E+00 SHOULD BE 1.57338E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  1.50000E+03. STRENGTH FUNCTION IS  1.79000E-04
                        DENSITY  3.55927E+00 SHOULD BE  1.57338E+00
```

129. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.55667E+00 SHOULD BE 1.57223E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  2.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                        DENSITY  3.55667E+00 SHOULD BE  1.57223E+00
```

130. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 3.00000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.55147E+00 SHOULD BE 1.56994E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  3.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                        DENSITY  3.55147E+00 SHOULD BE  1.56994E+00
```

131. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 4.00000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.54629E+00 SHOULD BE 1.56765E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  4.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                        DENSITY  3.54629E+00 SHOULD BE  1.56765E+00
```

132. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.00000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.54111E+00 SHOULD BE 1.56536E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  5.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                        DENSITY  3.54111E+00 SHOULD BE  1.56536E+00
```

133. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.25000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.53465E+00 SHOULD BE 1.56250E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  6.25000E+03. STRENGTH FUNCTION IS  1.79000E-04
                        DENSITY  3.53465E+00 SHOULD BE  1.56250E+00
```

134. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.52821E+00 SHOULD BE 1.55965E+00 (0): URR dens. (a)

51

```
        FILE  2
          SECTION 151
              ENERGY =  7.50000E+03. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  3.52821E+00 SHOULD BE  1.55965E+00
```

135. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 8.75000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.52177E+00 SHOULD BE 1.55681E+00 (0): URR dens. (a)*

```
        FILE  2
          SECTION 151
              ENERGY =  8.75000E+03. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  3.52177E+00 SHOULD BE  1.55681E+00
```

136. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.51535E+00 SHOULD BE 1.55397E+00 (0): URR dens. (a)*

```
        FILE  2
          SECTION 151
              ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  3.51535E+00 SHOULD BE  1.55397E+00
```

137. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.12500E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.50894E+00 SHOULD BE 1.55114E+00 (0): URR dens. (a)*

```
        FILE  2
          SECTION 151
              ENERGY =  1.12500E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  3.50894E+00 SHOULD BE  1.55114E+00
```

138. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.25000E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.50254E+00 SHOULD BE 1.54831E+00 (0): URR dens. (a)*

```
        FILE  2
          SECTION 151
              ENERGY =  1.25000E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  3.50254E+00 SHOULD BE  1.54831E+00
```

139. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.37500E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.49616E+00 SHOULD BE 1.54548E+00 (0): URR dens. (a)*

```
        FILE  2
          SECTION 151
              ENERGY =  1.37500E+04. STRENGTH FUNCTION IS  1.79000E-04
                            DENSITY  3.49616E+00 SHOULD BE  1.54548E+00
```

140. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 3.48978E+00 SHOULD BE 1.54267E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
          ENERGY =  1.50000E+04. STRENGTH FUNCTION IS  1.79000E-04
                      DENSITY  3.48978E+00 SHOULD BE  1.54267E+00
```

141. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.75000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.47707E+00 SHOULD BE 1.53705E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.75000E+04. STRENGTH FUNCTION IS  1.79000E-04
                      DENSITY  3.47707E+00 SHOULD BE  1.53705E+00
```

142. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.46441E+00 SHOULD BE 1.53145E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  2.00000E+04. STRENGTH FUNCTION IS  1.79000E-04
                      DENSITY  3.46441E+00 SHOULD BE  1.53145E+00
```

143. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.25000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.45179E+00 SHOULD BE 1.52587E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  2.25000E+04. STRENGTH FUNCTION IS  1.79000E-04
                      DENSITY  3.45179E+00 SHOULD BE  1.52587E+00
```

144. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.58120E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 3.43516E+00 SHOULD BE 1.51852E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  2.58120E+04. STRENGTH FUNCTION IS  1.79000E-04
                      DENSITY  3.43516E+00 SHOULD BE  1.51852E+00
```

145. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.79000E-04 / ENERGY = 9.96300E+02. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 4.38322E+00 SHOULD BE 1.28826E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
        ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.79000E-04
                ENERGY =  9.96300E+02. STRENGTH FUNCTION IS  1.79000E-04
                      DENSITY  4.38322E+00 SHOULD BE  1.28826E+00
```

146. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 4.37999E+00 SHOULD BE 1.28731E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.50000E+03. STRENGTH FUNCTION IS  1.79000E-04
                          DENSITY  4.37999E+00 SHOULD BE  1.28731E+00
```

147. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.37679E+00 SHOULD BE 1.28637E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
          ENERGY =  2.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                          DENSITY  4.37679E+00 SHOULD BE  1.28637E+00
```

148. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 3.00000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.37040E+00 SHOULD BE 1.28450E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
          ENERGY =  3.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                          DENSITY  4.37040E+00 SHOULD BE  1.28450E+00
```

149. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 4.00000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.36403E+00 SHOULD BE 1.28262E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
          ENERGY =  4.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                          DENSITY  4.36403E+00 SHOULD BE  1.28262E+00
```

150. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 5.00000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.35765E+00 SHOULD BE 1.28075E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
          ENERGY =  5.00000E+03. STRENGTH FUNCTION IS  1.79000E-04
                          DENSITY  4.35765E+00 SHOULD BE  1.28075E+00
```

151. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 6.25000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.34970E+00 SHOULD BE 1.27841E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
          ENERGY =  6.25000E+03. STRENGTH FUNCTION IS  1.79000E-04
                          DENSITY  4.34970E+00 SHOULD BE  1.27841E+00
```

152. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.34177E+00 SHOULD BE 1.27608E+00 (0): URR dens. (a)*

```
FILE   2
   SECTION 151
         ENERGY =  7.50000E+03. STRENGTH FUNCTION IS  1.79000E-04
                          DENSITY  4.34177E+00 SHOULD BE  1.27608E+00
```

153. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.75000E+03. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 4.33385E+00 SHOULD BE 1.27375E+00 (0): URR dens. (a)

```
FILE   2
   SECTION 151
         ENERGY =  8.75000E+03. STRENGTH FUNCTION IS  1.79000E-04
                          DENSITY  4.33385E+00 SHOULD BE  1.27375E+00
```

154. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 4.32595E+00 SHOULD BE 1.27143E+00 (0): URR dens. (a)

```
FILE   2
   SECTION 151
         ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  1.79000E-04
                          DENSITY  4.32595E+00 SHOULD BE  1.27143E+00
```

155. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.12500E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 4.31806E+00 SHOULD BE 1.26911E+00 (0): URR dens. (a)

```
FILE   2
   SECTION 151
         ENERGY =  1.12500E+04. STRENGTH FUNCTION IS  1.79000E-04
                          DENSITY  4.31806E+00 SHOULD BE  1.26911E+00
```

156. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.25000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 4.31019E+00 SHOULD BE 1.26680E+00 (0): URR dens. (a)

```
FILE   2
   SECTION 151
         ENERGY =  1.25000E+04. STRENGTH FUNCTION IS  1.79000E-04
                          DENSITY  4.31019E+00 SHOULD BE  1.26680E+00
```

157. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.37500E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 4.30233E+00 SHOULD BE 1.26449E+00 (0): URR dens. (a)

```
FILE   2
   SECTION 151
         ENERGY =  1.37500E+04. STRENGTH FUNCTION IS  1.79000E-04
                          DENSITY  4.30233E+00 SHOULD BE  1.26449E+00
```

158. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.79000E-04 / DENSITY 4.29449E+00 SHOULD BE 1.26218E+00 (0): URR dens. (a)

```
FILE  2
   SECTION 151
             ENERGY =  1.50000E+04. STRENGTH FUNCTION IS  1.79000E-04
                           DENSITY  4.29449E+00 SHOULD BE  1.26218E+00
```

159. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.75000E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.27884E+00 SHOULD BE 1.25758E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
             ENERGY =  1.75000E+04. STRENGTH FUNCTION IS  1.79000E-04
                           DENSITY  4.27884E+00 SHOULD BE  1.25758E+00
```

160. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.26326E+00 SHOULD BE 1.25300E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
             ENERGY =  2.00000E+04. STRENGTH FUNCTION IS  1.79000E-04
                           DENSITY  4.26326E+00 SHOULD BE  1.25300E+00
```

161. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.25000E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.24774E+00 SHOULD BE 1.24844E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
             ENERGY =  2.25000E+04. STRENGTH FUNCTION IS  1.79000E-04
                           DENSITY  4.24774E+00 SHOULD BE  1.24844E+00
```

162. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.58120E+04. STRENGTH FUNCTION IS
1.79000E-04 / DENSITY 4.22727E+00 SHOULD BE 1.24243E+00 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
             ENERGY =  2.58120E+04. STRENGTH FUNCTION IS  1.79000E-04
                           DENSITY  4.22727E+00 SHOULD BE  1.24243E+00
```

163. Non-threshold reaction with Q value differing from PSYCHE's expectations
*FILE 3 / SECTION 22 / THE CALCULATED Q 4.23498E+05 DISSAGREES WITH
THE GIVEN Q 3.44000E+05 (0): Iffy Q*

```
FILE  3
   SECTION  22
             THE CALCULATED Q  4.23498E+05 DISSAGREES WITH THE GIVEN Q  3.44000E+05
```

164. Non-threshold reaction with Q value differing from PSYCHE's expectations
*FILE 3 / SECTION 107 / THE CALCULATED Q 8.41780E+06 DISSAGREES WITH
THE GIVEN Q 0.00000E+00 (0): Iffy Q*

```
FILE  3
   SECTION 107
             THE CALCULATED Q  8.41780E+06 DISSAGREES WITH THE GIVEN Q  0.00000E+00
```

- `linear` Errors:

  1. Negative cross section found
     0: Neg. Sig(E)

     ```
     Linearize ENDF/B Cross Sections (LINEAR 2015-1)
     --------------------------------------------------------------------------------
     Retrieval Criteria-----------        MAT
     Monitor Mode----------------        Off
     Minimum Cross Section-------- 1.0000E-10 (Default Option)
     ... [107 more lines]
     ```

- `fudge-4.0` Warnings:

  1. Missing a channel with a particular angular momenta combination
     resonances / resolved / MultiLevel_BreitWigner (Error # 0): missingResonanceChannel

     ```
     WARNING: Missing a channel with angular momenta combination L = 0, J = 1.0 and S = 1.0 for "capture"
     ```

  2. Potential scattering hasn't converged, you need more L's!
     resonances / resolved (Error # 1): potentialScatteringNotConverged

     ```
     WARNING: Potential scattering hasn't converged by L=0 at E=996.3 eV, xs[0]/xs[0]=100.0% > 0.1%
     ```

- `fudge-4.0` Errors:

  1. Calculated and tabulated Q values disagree.
     reaction label 21: n[multiplicity:'2'] + Dy160 + gamma (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -6576957.550872803 eV vs -6.454e6 eV!
     ```

  2. Calculated and tabulated Q values disagree.
     reaction label 23: n + H1 + Tb160 + gamma (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -7673291.981781006 eV vs -7.508e6 eV!
     ```

  3. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
     reaction label 23: n + H1 + Tb160 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

     ```
     WARNING: Extra zero-probability outgoing energies found at incident energy 1.e7 eV
     WARNING: Extra zero-probability outgoing energies found at incident energy 1.1e7 eV
     WARNING: Extra zero-probability outgoing energies found at incident energy 1.2e7 eV
     WARNING: Extra zero-probability outgoing energies found at incident energy 1.3e7 eV
             ... plus 8 more instances of this message
     ```

  4. Calculated and tabulated Q values disagree.
     reaction label 24: H1 + Tb161 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -156769.0664367676 eV vs 1.89e5 eV!
     ```

  5. Calculated and tabulated Q values disagree.
     reaction label 25: H1 + Tb161_e1 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -213059.0664367676 eV vs 132710. eV!
```

6. Calculated and tabulated Q values disagree.
   reaction label 26: H1 + Tb161_e2 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -290449.0664367676 eV vs 55320. eV!
```

7. Calculated and tabulated Q values disagree.
   reaction label 27: H1 + Tb161_e3 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -387489.0664367676 eV vs -41720. eV!
```

8. Calculated and tabulated Q values disagree.
   reaction label 28: H1 + Tb161_e4 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -471679.0664367676 eV vs -125910. eV!
```

9. Calculated and tabulated Q values disagree.
   reaction label 29: H1 + Tb161_e5 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -551139.0664367676 eV vs -205370. eV!
```

10. Calculated and tabulated Q values disagree.
    reaction label 30: H1 + Tb161_e6 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -573999.0664367676 eV vs -228230. eV!
```

11. Calculated and tabulated Q values disagree.
    reaction label 31: H1 + Tb161_e7 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -636899.0664367676 eV vs -291130. eV!
```

12. Calculated and tabulated Q values disagree.
    reaction label 32: H1 + Tb161_e8 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -645559.0664367676 eV vs -299790. eV!
```

13. Calculated and tabulated Q values disagree.
    reaction label 33: H1 + Tb161_e9 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -655769.0664367676 eV vs -3.1e5 eV!
```

14. Calculated and tabulated Q values disagree.
    reaction label 34: H1 + Tb161_e10 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -674769.0664367676 eV vs -3.29e5 eV!
```

15. Calculated and tabulated Q values disagree.
    reaction label 35: H1 + Tb161_e11 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -714769.0664367676 eV vs -3.69e5 eV!
```

16. Calculated and tabulated Q values disagree.
    reaction label 36: H1 + Tb161_e12 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -740769.0664367676 eV vs -3.95e5 eV!
```

17. Calculated and tabulated Q values disagree.
    reaction label 37: H1 + Tb161_e13 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -742539.0664367676 eV vs -396770. eV!
    ```

18. Calculated and tabulated Q values disagree.
    reaction label 38: H1 + Tb161_e14 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -759769.0664367676 eV vs -4.14e5 eV!
    ```

19. Calculated and tabulated Q values disagree.
    reaction label 39: H1 + Tb161_e15 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -794769.0664367676 eV vs -4.49e5 eV!
    ```

20. Calculated and tabulated Q values disagree.
    reaction label 40: H1 + Tb161_e16 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -854769.0664367676 eV vs -5.09e5 eV!
    ```

21. Calculated and tabulated Q values disagree.
    reaction label 41: H1 + (Tb161_c ->Tb161 + gamma) (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -854769.0664367676 eV vs -5.09e5 eV!
    ```

22. Calculated and tabulated Q values disagree.
    reaction label 42: He4 + Gd158 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 8251587.170074463 eV vs 8.281e6 eV!
    ```

23. Calculated and tabulated Q values disagree.
    reaction label 43: He4 + Gd158_e1 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 8172077.170074463 eV vs 8201490. eV!
    ```

24. Calculated and tabulated Q values disagree.
    reaction label 44: He4 + Gd158_e2 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 7990147.170074463 eV vs 8019560. eV!
    ```

25. Calculated and tabulated Q values disagree.
    reaction label 45: He4 + Gd158_e3 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 7712607.170074463 eV vs 7742020. eV!
    ```

26. Calculated and tabulated Q values disagree.
    reaction label 46: He4 + Gd158_e4 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 7347187.170074463 eV vs 7.3766e6 eV!
    ```

27. Calculated and tabulated Q values disagree.
    reaction label 47: He4 + Gd158_e5 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 7274497.170074463 eV vs 7303910. eV!
    ```

28. Calculated and tabulated Q values disagree.
    reaction label 48: He4 + Gd158_e6 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 7227937.170074463 eV vs 7257350. eV!`

29. Calculated and tabulated Q values disagree.
    reaction label 49: He4 + Gd158_e7 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 7209997.170074463 eV vs 7239410. eV!`

30. Calculated and tabulated Q values disagree.
    reaction label 50: He4 + Gd158_e8 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 7092667.170074463 eV vs 7122080. eV!`

31. Calculated and tabulated Q values disagree.
    reaction label 51: He4 + Gd158_e9 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 7075157.170074463 eV vs 7104570. eV!`

32. Calculated and tabulated Q values disagree.
    reaction label 52: He4 + Gd158_e10 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 7064487.170074463 eV vs 7.0939e6 eV!`

33. Calculated and tabulated Q values disagree.
    reaction label 53: He4 + Gd158_e11 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 7055487.170074463 eV vs 7.0849e6 eV!`

34. Calculated and tabulated Q values disagree.
    reaction label 54: He4 + Gd158_e12 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6991777.170074463 eV vs 7021190. eV!`

35. Calculated and tabulated Q values disagree.
    reaction label 55: He4 + Gd158_e13 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6988127.170074463 eV vs 7017540. eV!`

36. Calculated and tabulated Q values disagree.
    reaction label 56: He4 + Gd158_e14 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6986107.170074463 eV vs 7015520. eV!`

37. Calculated and tabulated Q values disagree.
    reaction label 57: He4 + (Gd158_c ->Gd158 + gamma) (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6986107.170074463 eV vs 7015520. eV!`

38. Calculated and tabulated Q values disagree.
    reaction label 58: Dy162 + gamma (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 7733063.830932617 eV vs 8.196e6 eV!`

39. Calculated and tabulated Q values disagree.
    reaction label 59: n + He4 + Gd157 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -204501.1096496582 eV vs 3.44e5 eV!
    ```

40. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
    reaction label 59: n + He4 + Gd157 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

    ```
    WARNING: Extra zero-probability outgoing energies found at incident energy 7.e6 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 8.e6 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 9.e6 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.e7 eV
            ... plus 11 more instances of this message
    ```

41. Calculated and tabulated Q values disagree.
    reaction label 60: n[multiplicity:'2'] + He4 + Gd156 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -6781458.660583496 eV vs -6.016e6 eV!
    ```

42. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
    reaction label 60: n[multiplicity:'2'] + He4 + Gd156 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

    ```
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.4e7 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.45e7 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.5e7 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.6e7 eV
            ... plus 4 more instances of this message
    ```

43. Calculated and tabulated Q values disagree.
    reaction label 61: n[multiplicity:'2'] + H1 + Tb159 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -14250249.53271484 eV vs -1.3883e7 eV!
    ```

44. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
    reaction label 61: n[multiplicity:'2'] + H1 + Tb159 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

    ```
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.7e7 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.8e7 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.9e7 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 2.e7 eV
    ```

45. Cross section domain does not match domain of linked reaction cross section sum
    crossSectionSum label 1: (z,n) (Error # 0): summedCrossSectionDomainMismatch

    ```
    WARNING: Cross section domain does not match domain of linked reaction cross section sum
    ```

- `njoy2012` Warnings:

1. Recoil is not given, so one-particle recoil approximation used.
   heatr...prompt kerma (0): HEATR/hinit (4)

```
 ---message from hinit---mf6, mt102 does not give recoil za= 66162
                        photon momentum recoil used.
```